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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/996.304	11/21/2001	Manfred Ueberschar	VO10211.US	3003
75	90 07/30/2003			•
TAYLOR & AUST, P.C. 142 S. Main St. P.O. Box 560			EXAMINER	
			LAMB, BF	RENDA A
Avilla, IN 46710			ART UNIT	PAPER NUMBER
			1734	
			DATE MAILED: 07/30/2003	1

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No Applicant(s) Les School et aminer Group Art Unit					
	LAMB 1134					
—The MAILING DATE of this communication appears	on the cover sheet beneath the correspondence address—					
Period for Response	\sim					
A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SET MAILING DATE OF THIS COMMUNICATION.	TTO EXPIRE MONTH(S) FROM THE					
from the mailing date of this communication. - If the period for response specified above is less than thirty (30) days, a least the period for response is specified above, such period shall, by default	response within the statutory minimum of thirty (30) days will be considered timely. t, expire SIX (6) MONTHS from the mailing date of this communication . statute, cause the application to become ABANDONED (35 U.S.C. § 133).					
Responsive to communication(s) filed on 4/16/5	3					
☐ Since this application is in condition for allowance except fo accordance with the practice under <i>Ex parte Quayle</i> , 1935 (
Disposition of Claims						
(V Claim(s) 1-8 and 11-23	is/are pending in the application.					
	is/are withdrawn from consideration.					
□ <i>Q</i> faim(s)	is/are allowed.					
□ Ofaim(s) 1-8 and 11-23	is/are rejected.					
□ Claim(s)————						
□ Claim(s)	are subject to restriction or election					
Application Papers	requirement.					
$\hfill \square$ See the attached Notice of Draftsperson's Patent Drawing F	łeview, PTO-948.					
☐ The proposed drawing correction, filed on is ☐ approved ☐ disapproved.						
☐ The drawing(s) filed on is/are objected	to by the Examiner.					
☐ The specification is objected to by the Examiner.						
☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. § 119 (a)-(d)						
 □ Acknowledgment is made of a claim for foreign priority unde □ All □ Some* □ None of the CERTIFIED copies of the □ received. □ received in Application No. (Series Code/Serial Number) □ received in this national stage application from the International 	priority documents have been					
*Certified copies not received:	· · · · · · · · · · · · · · · · · · ·					
Attachment(s)						
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s	s) ☐ Interview Summary, PTO-413					
□ Notice of References Cited, PTO-892	□ Notice of Informal Patent Application, PTO-152					
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	□ Other					
Office A	ction Summary					

U. S. Patent and Trademark Office PTO-326 (Rev. 3-97)

*U.S. GPO: 1997-417-381/62710

Part of Paper No.

Application/Control Number: 09/996,304

Art Unit: 1734

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-8, 11-16 and 19-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et al.

Nakamura et al teaches the design of a coating apparatus comprised of a first and second curtain applicator each having a discharge nozzle such as depicted in Fig. 4 for discharging an application medium/coating in the form of a curtain onto the moving base. Nakamura et al shows a first and second curtain is applied on the moving base but fails to teach spacing between the first and second curtain is within the scope of the claim. However, it would have been obvious to optimize of the Nakamura et al

apparatus such that the distance between the first and second curtain are within the scope of the claim in order to apply a second layer of coating over the first layer without an intermediate drying step thereby increasing the productivity of the process especially since Nakamura et al teaches at column 7 lines 48-59 that his process does not require the first layer be dried before application of the second layer. The Nakamura et al first and/or second curtain applicator is capable of applying an application medium, which is within the scope of the claims. Note it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPO2d 1647 (1987). With respect to claims 2-8, 11, 12 and 14, the recitation as to the type of application medium dispensed by the curtain coaters does not structurally further limit the apparatus since the coating material is not structurally part of the claimed apparatus. With respect to claim 23, the recitation that the apparatus is configured to process a material web which is as paper web does not structurally further applicant's invention over Nakamura et al since the material being coated is not structurally part of the apparatus. Nakamura et al curtain coating system is capable of applying to such a material. With respect to claims 13, 15-16, 20 and 22, Nakamura et al teaches coating is supplied to the curtain coater using a metering pump and Nakamura et al Examples disclose a wide range of coating is applied to the substrate. Therefore, it would have been obvious that each of the Nakamura et al. metering pumps is capable of applying coating at the rate set forth in the above cited claims given the disclosed wide range of rate of coatings applied to the substrate using

Application/Control Number: 09/996,304

Art Unit: 1734

the curtain applicator and especially since it is known in the art that metering pumps in a coating apparatus provide the desired coating flow rate on the substrate. With respect to claim 21, Nakamura et al apparatus is capable of coating web. The recitation as to the type of material web does not further limit the apparatus since the material web itself not structurally part of the apparatus. With respect to claim 19, Nakamura et al teaches that the height of the curtain depends on the amount of coating solution to be supplied (see column 13, lines 41-45). Nakamura et al fails to teach height of the curtain coater is within the scope of the claim but the height of the Nakagawa et al curtain coater is adjustable given the range of curtain heights in Example 1 and 2. Therefore, it would have been obvious to optimize the curtain height of the adjustable Nakagawa et al curtain coater is adjustable given the range of curtain heights in Example 1 and 2. Therefore, it would have been obvious to optimize the curtain height of the adjustable Nakagawa et al curtain coater is adjustable given the range of curtain height of the adjustable Nakagawa et al curtain coater such that it is within the scope of the claim dependant on the amount of coating solution one desires to be applied on the substrate.

Page 4

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et al in view of Saito et al.

Nakamura et al is applied for reasons noted above but fails to teach a guide element arranged within the curtain flow path for guiding the curtain along part of the curtain flow path. However, it would have been obvious to modify the Nakamura et al by providing a guide element, which is positioned within the curtain flow path, for guiding the curtain along at least part of the curtain flow path since Saito et al teaches doing so to increase uniformity of the coating across the substrate.

Page 5

Art Unit: 1734

Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et al in view of Korokeyi et al.

Nakamura et al is applied for the reasons noted above but fails to teach a pressure differential device arranged between the first and second curtain coater. However, Nakamura et al teaches providing a wind shielding plate upstream of the curtain to prevent disturbance of the free falling curtain. Therefore, it would have been obvious to modify the Nakamura et al by providing a wind shielding means such as taught by between the first and second curtain coater and the Korokeyi et al wind shielding means is a pressure differential device which would provide a vacuum pressure to the web upstream of the Nakamura et al second curtain coater for the taught advantage of providing a wind shielding means upstream of a curtain coater increasing uniformity of the curtain applied to the web.

Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et al in view of Miyamoto.

Nakamura et al is applied for the reasons noted above but fails to teach a pressure differential device arranged between the first and second curtain coater. However, Nakamura et al teaches providing a wind shielding plate upstream of the curtain to prevent disturbance of the free fall curtain. Therefore, it would have been obvious to modify the Nakamura et al by providing a windshield means such as taught by Miyamoto between the first and second curtain coater and the Miyamoto wind shielding means is a pressure differential device which would provide a positive pressure to the web upstream of the Nakamura et al second curtain coater for the

taught advantage of providing a wind shielding means upstream of the Nakamura et al second curtain coater for the taught advantage of providing a wind shielding means upstream of a curtain coater increasing uniformity of the curtain applied to the web.

Applicant's arguments filed April 16, 2003 have been fully considered but they are not persuasive. Applicant's argument that Nakamura et al fails to teach first and second curtain applicator discharges at least one of the first and second application medium having properties within the scope of the claims is found to be non-persuasive. It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. *Ex parte Masham*, 2 USPQ2d 1647 (1987). The Nakamura et al first and second curtain applicator is capable of applying a coating medium within the scope of the claims.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Application/Control Number: 09/996,304

Art Unit: 1734

Page 7

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to Brenda A.

Lamb at telephone number (703) 308-2056. The examiner can normally be reached on Monday and Wednesday through Friday with alternate Tuesdays off.

B.A. Lamb/dh July 2, 2003

> BRENDA A. LAMB PRIMARY EXAMINER GREEN